```
chain nodes :
1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16
chain bonds :
1-2  2-3  3-4  3-10  4-5  5-6  6-7  7-8  7-11  8-9  10-12  12-13  13-14  13-16
14-15
exact/norm bonds :
1-2  3-10  4-5  5-6  7-11  8-9  10-12  13-16
exact bonds :
2-3  3-4  6-7  7-8  12-13  13-14  14-15


G1:C,H

Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  9:CLASS
10:CLASS  11:CLASS  12:CLASS  13:CLASS  14:CLASS  15:CLASS  16:CLASS



L1        STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1              STR
```
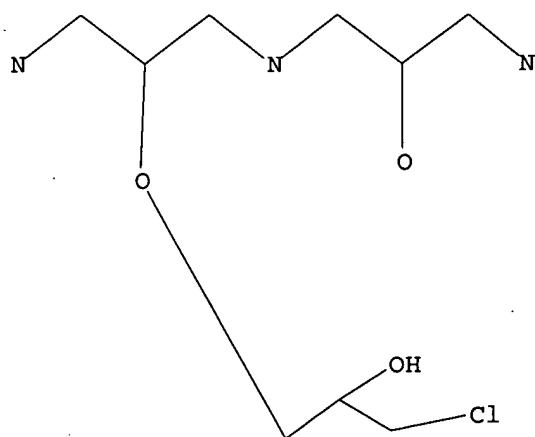


```
G1 C,H
```

Structure attributes must be viewed using STN Express query preparation.

```
=> s l1 ful
FULL SEARCH INITIATED 13:53:22 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      109 TO ITERATE

100.0% PROCESSED       109 ITERATIONS                 0 ANSWERS
SEARCH TIME: 00.00.01

L2              0 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\10-795772a1.str
```
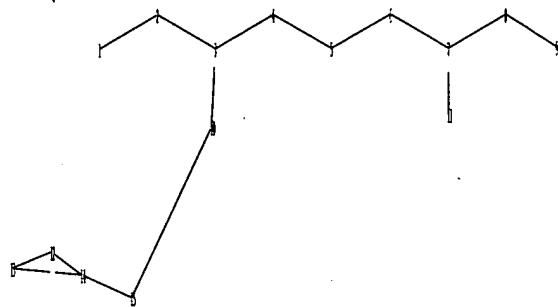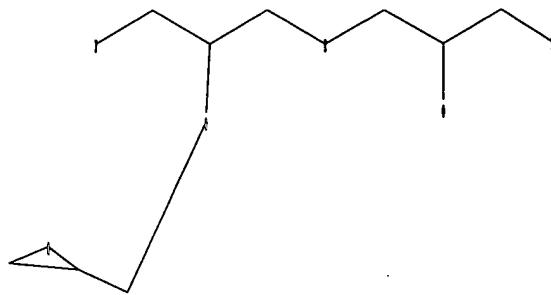


```
chain nodes :
1  2  3  4  5  6  7  8  9  10  11  15
ring nodes :
12  13  14
chain bonds :
1-2  2-3  3-4  3-10  4-5  5-6  6-7  7-8  7-11  8-9  10-15  14-15
ring bonds :
12-13  12-14  13-14
exact/norm bonds :
1-2  3-10  4-5  5-6  7-11  8-9  10-15  12-13  12-14  13-14
exact bonds :
2-3  3-4  6-7  7-8  14-15


G1:C,H

Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  9:CLASS
10:CLASS  11:CLASS  12:Atom  13:Atom  14:Atom  15:CLASS




L3      STRUCTURE UPLOADED

=> d
L3 HAS NO ANSWERS
L3              STR
```
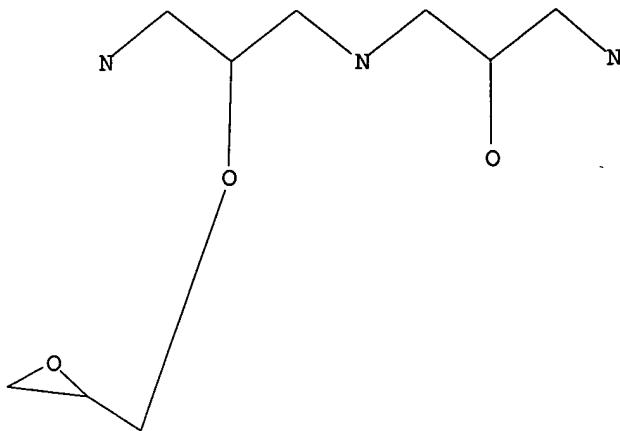
G1 C,H


Structure attributes must be viewed using STN Express query preparation.


```
=> s l3 ful
FULL SEARCH INITIATED 13:53:44 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -        891 TO ITERATE

100.0% PROCESSED        891 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L4              0 SEA SSS FUL L3

=>
Uploading C:\Program Files\Stnexp\Queries\10-795772a3.str
```
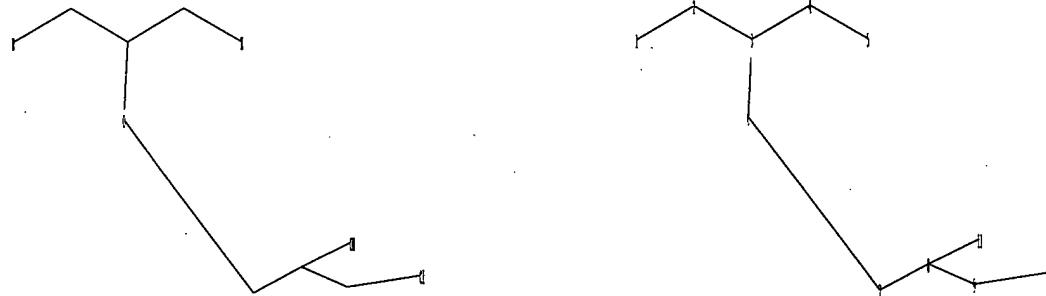


```
chain nodes :
1  2  3  4  5  6  7  8  9  10  11
chain bonds :
1-2  2-3  3-4  3-6  4-5  6-7  7-8  8-9  8-11  9-10
exact/norm bonds :
1-2  3-6  4-5  6-7  8-11
exact bonds :
2-3  3-4  7-8  8-9  9-10
```


G1:C,H

Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  9:CLASS
10:CLASS  11:CLASS

L5          STRUCTURE UPLOADED

=> d
L5 HAS NO ANSWERS
L5                    STR
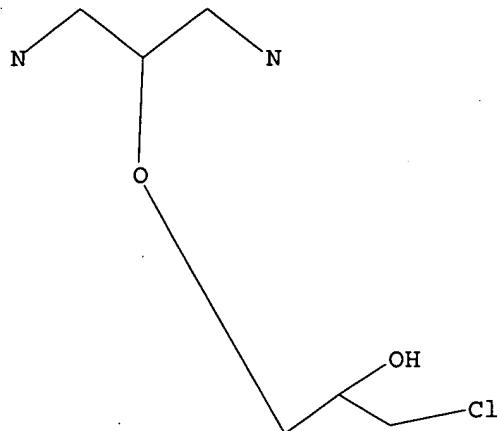


G1 C,H

Structure attributes must be viewed using STN Express query preparation.

=> s l5 ful
FULL SEARCH INITIATED 13:54:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      186 TO ITERATE

100.0% PROCESSED     186 ITERATIONS                          2 ANSWERS
SEARCH TIME: 00.00.01

L6          2 SEA SSS FUL L5

=> fil caplus
COST IN U.S. DOLLARS                        SINCE FILE       TOTAL
                                               ENTRY        SESSION

FULL ESTIMATED COST                          500.82         501.03

FILE 'CAPLUS' ENTERED AT 13:54:58 ON 28 DEC 2006
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FILE COVERS 1907 - 28 Dec 2006   VOL 146 ISS 1
FILE LAST UPDATED: 27 Dec 2006   (20061227/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
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http://www.cas.org/infopolicy.html

=> s 15
   REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 13:55:00 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       11 TO ITERATE

100.0% PROCESSED       11 ITERATIONS                           0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:             22 TO       418
PROJECTED ANSWERS:                 0 TO         0

L7             0 SEA SSS SAM L5


L8             0 L7

=> s 16
L9             1 L6

=> d fbib ed

L9   ANSWER 1 OF 1  CAPLUS   COPYRIGHT 2006 ACS on STN
AN   1979:126958  CAPLUS
DN   90:126958
TI   Use of water-soluble polyelectrolytes as flocculants for clarification of
     waste waters during the working of placer deposits
AU   Esenovskaya, L. N.; Turchaninova, L. P.; Tsarik, L. Ya.; Chikin, Yu. M.
CS   Inst. Nefte- Uglekhim. Sint., Angarsk, USSR
SO   Zhurnal Prikladnoi Khimii (Sankt-Peterburg, Russian Federation) (1978),
     51(7), 1551-5
     CODEN: ZPKHAB; ISSN: 0044-4618
DT   Journal
LA   Russian
ED   Entered STN:  12 May 1984

```
=> d abs hitstr
```

L9   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
AB   Wastewaters (containing a high concentration of finely dispersed clay)
were treated
        by com. polyelectrolytes.  The effectiveness of a flocculant was assessed
        by measuring the settling rate of the flocculated particles.  All
cationic
        polyelectrolytes were effective.  High-mol.-weight polymers gave the best
        results.  Polyelectrolytes were recommended for industrial application.
        The addition of 6-8 mg/L of VA-2  [26780-21-2]  (mol. weight 60,000)
reduced the
        turbidity from 8 g/L to 20 mg/L after 2-4 h settling.  The optimum
        polyelectrolyte dosage is substantially less than that of inorg.
        coagulants for the same degree of clarification.
IT   69684-13-5
        RL: PROC (Process)
        (flocculants, for treatment of wastewater from placer mining)
RN   69684-13-5  CAPLUS
CN
Poly[oxy-1,2-ethanediyl(dimethyliminio)[2-(3-chloro-2-hydroxypropoxy)-1,3-
        propanediyl](dimethyliminio)-1,2-ethanediyl dichloride]  (9CI)  (CA INDEX
        NAME)
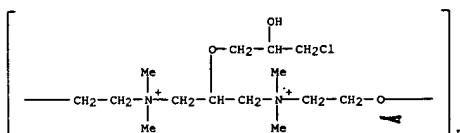


●2  Cl⁻

```
=> FIL STNGUIDE
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY       SESSION
FULL ESTIMATED COST                               5.57        507.50


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY       SESSION
CA SUBSCRIBER PRICE                              -0.75        -0.75
```

FILE 'STNGUIDE' ENTERED AT 13:55:31 ON 28 DEC 2006
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Dec 22, 2006 (20061222/UP).

```
=> fil reg
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY       SESSION
FULL ESTIMATED COST                               0.12        507.62


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY       SESSION
CA SUBSCRIBER PRICE                               0.00        -0.75
```

FILE 'REGISTRY' ENTERED AT 13:56:59 ON 28 DEC 2006
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provided by InfoChem.

STRUCTURE FILE UPDATES:    27 DEC 2006   HIGHEST RN 916420-05-8
DICTIONARY FILE UPDATES:   27 DEC 2006   HIGHEST RN 916420-05-8

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10-795772a4.str
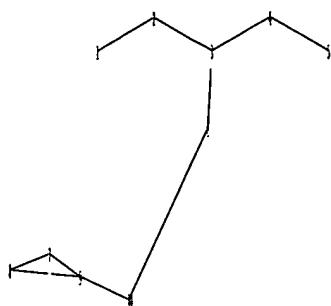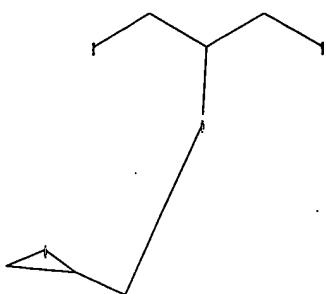
chain nodes :
1  2   3   4   5   6   10
ring nodes :
7   8   9
chain bonds :
1-2   2-3   3-4   3-6   4-5   6-10   9-10
ring bonds :
7-8   7-9   8-9
exact/norm bonds :
1-2   3-6   4-5   6-10   7-8   7-9   8-9
exact bonds :
2-3   3-4   9-10


G1:C,H

Match level :
1:CLASS   2:CLASS   3:CLASS   4:CLASS   5:CLASS   6:CLASS   7:Atom   8:Atom   9:Atom
10:CLASS



L10        STRUCTURE UPLOADED

=> d
L10 HAS NO ANSWERS
L10                    STR
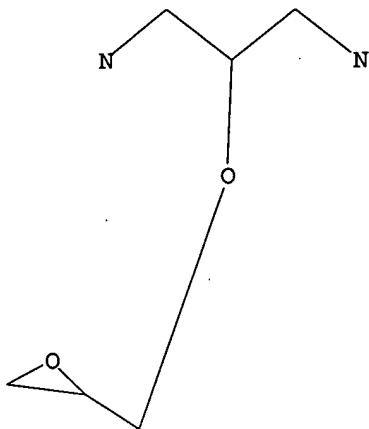
G1 C,H


Structure attributes must be viewed using STN Express query preparation.


```
=> s l10 ful
FULL SEARCH INITIATED 13:57:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      1166 TO ITERATE

100.0% PROCESSED      1166 ITERATIONS                              3 ANSWERS
SEARCH TIME: 00.00.01

L11            3 SEA SSS FUL L10

=> fil caplus
```

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 166.94 | 674.56 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -0.75 |

```
FILE 'CAPLUS' ENTERED AT 13:57:17 ON 28 DEC 2006
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FILE LAST UPDATED: 27 Dec 2006   (20061227/ED)

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=> s l11
L12          2 L11

=> d fbib ed abs hitstr tot

L12  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2005:985119  CAPLUS
DN   143:250074
TI   Synthetic multiple quaternary ammonium salts useful for quaternization of
     polymers, etc.
IN   Lang, Weilian; Little, Charles; Van De Pas, Victor
PA   USA
SO   U.S. Pat. Appl. Publ., 10 pp.
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE |
|---|---|---|---|---|---|
| PI  US 2005194113 | A1 | 20050908 | US 2004-795772 | | 20040308 |
| | | | US 2004-550274P | P | 20040305 |
| CA 2558673 | A1 | 20051020 | CA 2005-2558673 | | 20050301 |
| | | | US 2004-550274P | P | 20040305 |
| | | | US 2004-795772 | A | 20040308 |
| | | | WO 2005-US6552 | W | 20050301 |
| WO 2005097732 | A1 | 20051020 | WO 2005-US6552 | | 20050301 |

     W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
         CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
         GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
         LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
         NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
         SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW
     RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
         AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
         EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
         RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
         MR, NE, SN, TD, TG

| | | | US 2004-550274P | P | 20040305 |
|---|---|---|---|---|---|
| | | | US 2004-795772 | A | 20040308 |
| EP 1720824 | A1 | 20061115 | EP 2005-724150 | | 20050301 |

     R:  AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
         IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR

| | | | US 2004-550274P | P | 20040305 |
|---|---|---|---|---|---|
| | | | US 2004-795772 | A | 20040308 |
| | | | WO 2005-US6552 | W | 20050301 |

OS   MARPAT 143:250074
ED   Entered STN:  09 Sep 2005
AB   This invention pertains to novel multiple quaternary ammonium salts and
     their derivs. of the formula
     {R3R2R1N+CH2CH(OR6)CH2N+R4R5CH2CH(OR6)CH2N+R1
     'R2'R3']A- (R1,R1',R2,R2',R3,R3',R4,R5 = alkyl, aryl, aralkyl,
     -CH2CH(OR6)CH2N+R1R2R3; ≥1 of R6 = glycidyl, 3-chloro-2-
     hydroxypropyl; A = anion).  This invention also pertains to multiple
     quaternary ammonium salts and their derivs. represented by the formula
     {R3R2R1N+CH2CH(OR4)CH2N+R4R5}A- (R1,R1',R2,R2',R3,R3',R4,R5 = alkyl,
aryl,
     aralkyl, -CH2CH(OR4)CH2N+R1R2R3; ≥1 of R4 = glycidyl,
     3-chloro-2-hydroxypropyl; A = anion).
IT   863477-00-3
     RL: RCT (Reactant); RACT (Reactant or reagent)

L12  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2006 ACS on STN    (Continued)
     (synthetic multiple quaternary ammonium salts useful for
quaternization
        of polymers, etc.)
RN   863477-00-3  CAPLUS
CN   1,3-Propanediaminium, N,N,N,N',N',N'-hexamethyl-2-(oxiranylmethoxy)-,
     dichloride (9CI)  (CA INDEX NAME)
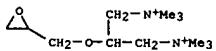


L12  ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1991:680870  CAPLUS
DN   115:280870
TI   Complexes of complexing agents bonded to cascade polymers for use in
     pharmaceuticals
IN   Platzek, Johannes; Schmitt-Willich, Heribert; Gries, Heinz;
     Schuhmann-Giampieri, Gabriele; Vogler, Hubert; Weinmann, Hanns Joachim;
     Bauer, Hans
PA   Schering A.-G., Pol.
SO   Ger. Offen., 36 pp.
     CODEN: GWXXBX
DT   Patent
LA   German
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE |
|---|---|---|---|---|---|
| PI  DE 3938992 | A1 | 19910523 | DE 1989-3938992 | | 19891121 |
| EP 430863 | A2 | 19910605 | EP 1990-730017 | | 19901119 |
| EP 430863 | A3 | 19920304 | | | |
| EP 430863 | B1 | 19950517 | | | |
| EP 430863 | B2 | 19990825 | | | |

     R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE

| | | | DE 1989-3938992 | A | 19891121 |
|---|---|---|---|---|---|
| ES 2073006 | T3 | 19950801 | ES 1990-730017 | | 19901119 |
| | | | DE 1989-3938992 | A | 19891121 |
| HU 56121 | A2 | 19910729 | HU 1990-7217 | | 19901120 |
| | | | DE 1989-3938992 | A | 19891121 |
| CA 2030472 | A1 | 19910522 | CA 1990-2030472 | | 19901121 |
| CA 2030472 | C | 20030610 | | | |
| | | | DE 1989-3938992 | A | 19891121 |
| FI 9005744 | A | 19910522 | FI 1990-5744 | | 19901121 |
| FI 107931 | B1 | 20011031 | | | |
| | | | DE 1989-3938992 | A | 19891121 |
| NO 9005037 | A | 19910522 | NO 1990-5037 | | 19901121 |
| NO 178032 | B | 19951002 | | | |
| NO 178032 | C | 19960110 | | | |
| | | | DE 1989-3938992 | A | 19891121 |
| AU 9066859 | A | 19910530 | AU 1990-66859 | | 19901121 |
| AU 684453 | B2 | 19971218 | | | |
| | | | DE 1989-3938992 | A | 19891121 |
| JP 03246234 | A | 19911101 | JP 1990-314440 | | 19901121 |
| JP 3179092 | B2 | 20010625 | | | |
| | | | DE 1989-3938992 | A | 19891121 |
| ZA 9009352 | A | 19911224 | ZA 1990-9352 | | 19901121 |
| | | | DE 1989-3938992 | A | 19891121 |
| US 5364614 | A | 19941115 | US 1990-617077 | | 19901121 |
| | | | DE 1989-3938992 | A | 19891121 |
| IL 96434 | A | 19950124 | IL 1990-96434 | | 19901121 |
| | | | DE 1989-3938992 | A | 19891121 |
| KR 202796 | B1 | 19990615 | KR 1990-18949 | | 19901121 |
| | | | DE 1989-3938992 | A | 19891121 |
| JP 2000355593 | A | 20001226 | JP 2000-130116 | | 19901121 |
| | | | DE 1989-3938992 | A | 19891121 |
| | | | JP 1990-314440 | A3 | 19901121 |
| GR 3031629 | T3 | 20000131 | GR 1999-402638 | | 19991015 |
| | | | DE 1989-3938992 | A | 19891121 |
| US 2002068037 | A1 | 20020606 | US 2001-973836 | | 20011011 |
| US 6576222 | B2 | 20030610 | | | |
| | | | DE 1989-3938992 | A | 19891121 |
| | | | US 1990-617077 | A1 | 19901121 |

L12  ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2006 ACS on STN    (Continued)

| | | | US 1994-209098 | B1 | 19940311 |
|---|---|---|---|---|---|
| | | | US 1994-353390 | A1 | 19941202 |
| | | | US 1996-743535 | A3 | 19961104 |
| | | | US 1998-156048 | A3 | 19980917 |
| | | | US 2000-510363 | A3 | 20000222 |
| | | | US 2000-628179 | A3 | 20000728 |
| US 2003232017 | A1 | 20031218 | US 2002-316094 | | 20021211 |
| US 6855309 | B2 | 20050215 | | | |
| | | | DE 1989-3938992 | A | 19891121 |
| | | | US 1990-617077 | A1 | 19901121 |
| | | | US 1994-209098 | B1 | 19940311 |
| | | | US 1994-353390 | A1 | 19941202 |
| | | | US 1996-743535 | A3 | 19961104 |
| | | | US 1998-156048 | A3 | 19980917 |
| | | | US 2000-510363 | A3 | 20000222 |
| | | | US 2000-628179 | A3 | 20000728 |
| | | | US 2001-973836 | A3 | 20011011 |
| US 2005118105 | A1 | 20050602 | US 2004-953582 | | 20040930 |
| | | | DE 1989-3938992 | A | 19891121 |
| | | | US 1990-617077 | A1 | 19901121 |
| | | | US 1994-209098 | B1 | 19940311 |
| | | | US 1994-353390 | A1 | 19941202 |
| | | | US 1996-743535 | A3 | 19961104 |
| | | | US 1998-156048 | A3 | 19980917 |
| | | | US 2000-510363 | A3 | 20000222 |
| | | | US 2000-628179 | A3 | 20000728 |
| | | | US 2001-973836 | A3 | 20011011 |
| | | | US 2002-316094 | A3 | 20021211 |

ED   Entered STN:  27 Dec 1991
AB   Cascade polymers containing complexing ligands and, optionally, ≥5 ions
     of elements with atomic number 21-29, 42, 44, or 57-83 and cations of
inorg. or
     organic bases, amino acids, or amino amides are useful in magnetic
resonance
     imaging and x-ray diagnosis.  The reaction of 50 mmol N(CH2CH2NH2)3 with
     600 mmol Me acrylate (I) in MeOH at room temperature gave 92.3% hexa-Me
ester of
     a cascade polymer which was treated (40 mmol) with 3.6 mmol
     ethylenediamine (II) in MeOH to give 94% hexa-amine derivative,
successive
     reactions of which with I and II gave a tetracosa-amine derivative of a
     tetracosa-Me ester containing 25.27% N.  Treating 4.94 g this polymer
with
     29.04 g N3-[(2,6-dioxomorpholino)ethyl]-N6-(2-carbethoxyethyl)-3,6-
     diazaoctanedioic acid in H2O at pH 9.0, adjusting the pH to 7 by ion
     exchange, ultrafiltration, and freeze drying gave 13.6 g powder, 10.0 g
of
     which was stirred with 2.77 g Gd2O3 in H2O at 80° for 30 min to
     give 12.1 g polymer containing 17.9% Gd and 5.6% H2O, with T1 relaxivity
12.98
     and 13.23 L/mmol-s in H2O and plasma, resp.
IT   136533-08-9P
     RL: PREP (Preparation)
     (preparation of, and reaction with hexaaminohexadeoxycyclodextrin
        hexahydrochloride)
RN   136533-08-9  CAPLUS
CN   1,3-Propanediamine, 2-(oxiranylmethoxy)-N,N,N',N'-tetrakis(phenylmethyl)-
     (9CI)  (CA INDEX NAME)

$$
\begin{array}{c}
\text{CH}_2\text{—Ph} \\
| \\
\text{CH}_2\text{—N—CH}_2\text{—Ph} \\
\text{CH}_2\text{—Ph} \\
| \\
\text{CH}_2\text{—O—CH—CH}_2\text{—N—CH}_2\text{—Ph}
\end{array}
$$